

NEW RECORDS OF SPIDERS (ARACHNIDA: ARANEI) FROM THE RUSSIAN FAR EAST AND SIBERIA

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Summary. A list of 13 spider species collected in Siberia and the Russian Far East is provided, of those eight species are new for Russian fauna. *Erigonoplus foveatus* (Dahl) is recorded from Siberia for the first time. The linyphiid spider *Erigonoplus globipes* (L. Koch) is firstly found in Altaysky Krai. New distributional data on the little-known species *Takeoa nishimurai* (Yaginuma), *Araneus nojimai* Tanikawa, *A. tsurusakii* Tanikawa, and are given. The female copulatory organs of *A. miqanensis* Yin, Wang, Xie et Peng are illustrated.

Key words: spiders, fauna, new records, Primorsky Krai, Zabaikalsky Krai, Altaysky Krai, Russia.

Л. А. Триликаускас. Новые находки пауков (Arachnida: Aranei) на Дальнем Востоке и в Сибири // Дальневосточный энтомолог. 2025. № 518. С. 22-28.

Резюме. Приведен список 13 видов пауков, собранных в Сибири и на Дальнем Востоке России, из них восемь видов являются новыми для фауны России. *Erigonoplus foveatus* (Dahl) впервые найден в Сибири. Вид *Erigonoplus globipes* (L. Koch) впервые обнаружен в Алтайском крае. Приведены новые данные о распространении малоизвестных видов *Takeoa nishimurai* (Yaginuma), *Araneus nojimai* Tanikawa и *A. tsurusakii* Tanikawa. Проиллюстрированы копулятивные органы самки *A. miqanensis* Yin, Wang, Xie et Peng.

INTRODUCTION

Despite the active arachnological research conducted in recent years in the Asian part of Russia, this vast territory, very heterogeneous in terms of conditions and accessibility, remains insufficiently explored.

A lot of papers about the spider fauna of southwestern part of Primorsky Krai have been published recently, which brought many new and interesting records (Dunin, 1984; Marusik *et al.*, 2015; Simonov, 2016; Marusik & Logunov, 2017; Trilikauskas, 2019; Fomichev & Omelko, 2024, etc), but spiders of this region are not completely studied.

Another region with a long, but still far from complete history of spider studies is Transbaikalia, which has been the subject of dozens of articles published to date (Kulczyński, 1895; Odenvall, 1901; Danilov, 1989, 1991, 1994; Marusik *et al.*, 2001, etc.), as well as monographs (Dubatolov *et al.*, 2004; Danilov, 2008). At the same time, a significant part of this vast territory remains under-explored, and the landscape diversity of the region makes it promising in terms of new faunistic records.

The south of Western Siberia can be considered one of the well-studied territories in Siberia. The results of researches in the nature reserves of the Altai-Sayan region and beyond their borders (Fomichev, 2015, 2016; Trilikauskas, 2019; Trilikauskas & Tanasevitch, 2021, etc.) and in Novosibirskaya Oblast (Azarkina *et al.*, 2018) were published recently. However, against this background, the Salair Ridge remained almost a blank spot.

The aim of this work is to report a new data on spiders from the three regions of the Asian part of Russia listed above.

MATERIAL AND METHODS

The material for the work was collected in Primorsky krai on the territory of the Leopard Land National Park in June 2019–2020 and in September 2021, in Zabaikalsky krai – in June 2022–2023, and in Altaisky Krai on the Salair Ridge – in June 2024. The spiders were collected by hand in Primorsky krai and using soil traps on the Salair Ridge and Transbaikalia and fixed in ethylene glycol in a ratio of 1:5 to water.

The specimen was photographed with Olympus Tough TG-6 camera, attached to an Cindy stereomicroscope. The habitat was photographed with Olympus Tough TG-6 camera also. The all material is deposited in the collection of the Institute of Animal Systematics and Ecology of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia (ISEA; curator: G. N. Azarkina).

The nomenclature of taxa and general distribution of species corresponds to the World Spider Catalogue (2024). Species new to the Russian fauna are marked with an asterisk (*).

LIST OF SPECIES

Order Aranei

Family Araneidae

****Araneus menglunensis* Yin, Wang, Xie et Peng, 1990**

MATERIAL. Primorsky krai: Leopard Land National Park, Krounovka River basin, near the confluence of the Listvennichny and Kamenisty rivers, on building, 43°34.324796' N, 131°21.290253' E, 26–27.VI 2020, 1♂, coll. Trilikauskas.

DISTRIBUTION. Russian Far East (Primorsky Krai), China.

****Araneus miquanensis* Yin, Wang, Xie et Peng, 1990**

Fig. 1

MATERIAL. Primorsky krai: Leopard Land National Park, Gamov Peninsula, Srednyaya Bay, edge of oak forest, 42°39.148377' N, 131°13.082792' E, 14–17.IX 2021, 1♀, coll. Trilikauskas.

DISTRIBUTION. Russian Far East (Primorsky Krai), China.

REMARKS. The photo of female copulatory organs of this species is given below.



Fig. 1. Epigyne of *Araneus miquanensis* female from Primorsky krai, dorsal view. Scale bars=1.1 mm.

***Araneus nojimai* Tanikawa, 2001**

MATERIAL. Primorsky krai: Leopard Land National Park, watershed of the Gryznaya and Ananyevka rivers, broadleaf forest, grassland, 43°23.039456'N, 131°31.435053'E, 06.VI 2019, 1♂, coll. Trilikauskas.

DISTRIBUTION. Russian Far East (Primorsky Krai), Japan.

NOTES. This is the second location in the Russian Far East. Previously noted on Russky Island only (Simonov, 2016).

****Araneus ryukyuanus* Tanikawa, 2001**

MATERIAL. Primorsky krai: Kedrovaya Pad Nature Reserve, near old headquarter of reserve, oak forest 43°5.804156'N, 131°34.044752' E, 03.VI.2019, 2♂, coll. Trilikauskas; Leopard Land National Park, the left bank of the Barabashevka River below the bridge over the highway to Zanadvorovka, 3 km of the Barabash village, floodplain forest, on the grass, 43°10.569836'N, 131°32.063553'E, 08.VI 2019, 1♂, coll. Trilikauskas.

DISTRIBUTION. Russian Far East (Primorsky Krai), Japan.

***Araneus tsurusakii* Tanikawa, 2001**

MATERIAL. Primorsky krai: Leopard Land National Park, the left bank of the Barabashevka River below the bridge over the highway to Zanadvorovka, on grass along the road through the fields, 43°10.958756' N, 131°31.822413' E, 08.VI 2019, 1♂, 1♀, coll. Trilikauskas.

DISTRIBUTION. Russian Far East (Primorsky Krai), Korea, Japan.

NOTES. This is the second location in the Russian Far East. Previously this species was noted on Russky Island only (Simonov, 2016).

Family Linyphiidae

Erigonoplus foveatus (Dahl, 1812)

MATERIAL. Altaisky Krai: Togulsky distr., near the Kolonkovo village, wormwood-feather grass steppe, 53°18.869553'N, 85°52.310805'E, 9–15.VI 2024, 7♂, 4♀, coll. Trilikauskas.

DISTRIBUTION. Europe, Russia (Europe, Caucasus, West Siberia).

NOTES. *Erigonoplus foveatus* is a rare species occurring in Europe from southern France (Pyrenees) to Russia (Karelia, Ural and Caucasus) (Holla *et al.*, 2016). It is a first record in Siberia. Wormwood-feather grass steppe is a typical habitat of this species in Altaisky Krai (Fig. 2).



Fig 2. A typical habitat of *Erigonoplus* spp. in Altaisky Krai.

Erigonoplus globipes (L. Koch, 1872)

MATERIAL. Altaisky Krai: Togulsky distr., near the Kolonkovo village, wormwood-feather grass steppe, 53°18.869553'N, 85°52.310805'E, 9–15.VI 2024, 1♂, coll. Trilikauskas.

DISTRIBUTION. Europe, Turkey, Armenia, Georgia, Rostov region and Stavropolsky Krai in Russia (Ponomarev, 2022).

NOTES. This is a first record in mountains of South Siberia (Salair elevation). Previously noted in Karasuksy district of the Novosibirskaya Oblast only (Azarkina *et al.*, 2018).

****Neriene jinjoensis* Paik, 1991**

MATERIAL. Zabaikalsky krai: Gazimuro-Zavodskoy distr., 3 km SE of the Gazimursky Zavod village, larch forest with *Rhododendron dauricum* L., 51°32.3454'N, 118°24.1327'E, 12–20.VI 2022, 1♂, coll. A.A. Gurina, R.Yu. Dudko; same locality, 4 km W of the Gazimursky Zavod village, mixed-grass meadow at the bottom of the hollow, 51°30.697800'N, 118°15.605526'E, 12–20.VI 2022, 1♂, 1♀, coll. A.A. Gurina, R.Yu. Dudko; same locality, 40 km ESE of the Gazimursky Zavod village, willow forest, 51°26.633400'N, 118°53.682725'E, 14–20.VI 2022, 1♂, coll. A.A. Gurina, R.Yu. Dudko.

DISTRIBUTION. Transbaikalia in Russia, China, Korea, Japan.

Family Lycosidae

****Arctosa ebicha* Yaginuma, 1960**

MATERIAL. Primorsky krai: Leopard Land National Park, Gamov Peninsula, Srednyaya Bay, oak forest, 42°39.148377' N, 131°13.082792' E, 15.IX 2021, 1♀, coll. Trilikauskas.

DISTRIBUTION. Russian Far East (Primorsky Krai), China, Korea, Japan.

Family Philodromidae

****Thanatus wuchuanensis* Tang et Wang, 2008**

MATERIAL. Zabaikalsky Krai, Gazimuro-Zavodskoy distr., 40 km ESE of the Gazimursky Zavod village, Solonechnaya River valley, mixed-grass steppe meadow, 51°26.473800'N, 118°53.605325'E, 14–20.VI 2022, 2♂, coll. A.A. Gurina, R.Yu. Dudko.

DISTRIBUTION. Transbaikalia in Russia, China.

Family Theridiidae

****Takayus takayensis* (Saito, 1939)**

MATERIAL. Primorsky krai: Leopard Land National Park, Narva River valley, 12 km NNW from Bamburovo village, broadleaf forest, 43°02.678' N, 131°16.743' E, 21.VI 2019, 1♂, coll. Trilikauskas.

DISTRIBUTION. Russian Far East (Primorsky Krai), China, Korea, Japan.

Family Titanoecidae

****Titanoeca mae* Song, Zhang et Zhu, 2002**

MATERIAL. Zabaikalsky Krai: Gazimuro-Zavodskoy district, 34 km SE of the Gazimursky Zavod village, Talovka River valley, birch-larch forest, 51°27.076200'N, 118°47.368325'E, 7–14.VI 2023, 2♂, coll. A.A. Gurina, V.K. Zinchenko.

DISTRIBUTION. Transbaikalia in Russia, China.

Family Zoropsidae

***Takeoa nishimurai* (Yaginuma, 1963)**

MATERIAL. Primorsky krai: Leopard Land National Park, Gamov Peninsula, Srednyaya Bay, edge of oak forest, 42°39.148377' N, 131°13.082792' E, 15.IX 2021, 1♀, coll. Trilikauskas.

DISTRIBUTION. Russian Far East (Primorsky Krai) (Fomichev & Omelko, 2024), China, Korea, Japan.

NOTES. This is the second location in the Russian Far East. Previously noted in Krounovka River valley in Ussuriysk urban district only (Fomichev & Omelko, 2024).

CONCLUSION

As a result of the conducted research, eight species of spiders are recorded from Russia for the first time. For three species, only recently noted in the south of the Russian Far East, our records became the second ones known in Russia. Records of two poorly studied species of the genus *Erigonoplus*, made in the wormwood-feather-grass steppe of the Salair Ridge, significantly widen our knowledge of their habitat. *Erigonoplus foveatus* is new for the fauna of Siberia. Records of three species new to the fauna of Russia in the Gazimuro-Zavodskoy District of the Zabaikalsky Krai indicate that the South-Eastern Transbaikalia still remains a poorly studied part of this region. Taking into account published data (World Spider Catalog, 2024) and results of present paper, the genus *Araneus* has 33 species in the fauna of Russia (previously 28). The list of species of the genus *Neriene* now includes 15 species, the genus *Arctosa* – 16 species, the genus *Thanatus* – 23 species, the genus *Takayus* 2 species, and the genus *Titanoeca* – 14 species.

ACKNOWLEDGEMENTS

The work was supported by the Federal Program of Fundamental Scientific Research for 2021–2025, project No. FWGS-2021–0002. The field work in Transbaikalia was carried out with the financial support of MMC “Norilsky Nickel”. Field collections in Transbaikalia were made by A.A. Gurina, V.K. Zinchenko and R.Yu. Dudko. The author is grateful to the administration of the Leopard Land Federal State Budgetary Institution for support in carrying out work on its territory, as well as to Alexey Titov, and staff member of this institution, for transport support during field work.

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